

Summer School 2014

The NG3 SANS Breakout Session

Afternoon Sessions. Total close to 4 hours 30 minutes

In the Classroom Intro 1 hour 15 minutes

- “Introduction to Neutron Scattering” and “SANS Nuts and Bolts” (B. Hammouda)
- “SANS Experiment Planning” and “Online Info” (M. Hore)
- “SANS Data Analysis” and “SANS from SDS Micelles in Water” (B. Hammouda)

At the Instrument (C. Gagnon, B. Hammouda and M. Hore) 1 hour 0 minutes

- Describe the SANS instrument in detail
- Go over the three “standard” configurations
- Go over data collection for 5 % SDS/d-water from 10 °C to 90 °C
- Show the various sample environments
- Distribute the Questions sheet

-- Break 30 minutes

In the Classroom Data Reduction (C. Gagnon) 1 hour 15 minutes

- Follow the reduction of SANS data for 5 % SDS/d-water for 10 °C and 20 °C
- Participants reduce themselves SANS data for 5 % /d-water for 30 °C and 40 °C
- Plot the reduced data for the various temperatures to assess the trends

Morning Sessions... Total close to 3 hours

In the Classroom Data Analysis I

- Go over the Questions & Answers sheet (B. Hammouda) 15 minutes
- Model fitting for 5 % SDS/d-water (M. Hore, B. Hammouda, C. Gagnon) 1 hour 15 minutes

-- Break 30 minutes

In the Classroom Data Analysis II

- SDS Micelles Paper – Material Balance Equations (B. Hammouda) 30 minutes
- Chapter 42 and Chapter 45 from the SANS Toolbox (B. Hammouda) 30 minutes
- “SANS Research Topics” (B. Hammouda) 15 minutes
- Finalize, Any Questions? 15 minutes

To Do...

Present the Tuesday experiment
Prepare presentation on Thursday and Friday
Presentations on Friday